NCP

```
NN       NN  CCCCCCCC  PPPPPPPP    SSSSSSSS  TTTTTTTTTT    AAAAAA   MM       MM    AAAAAA    CCCCCCCC
NN       NN  CCCCCCCC  PPPPPPPP    SSSSSSSS  TTTTTTTTTT    AAAAAA   MM       MM    AAAAAA    CCCCCCCC
NN       NN  CC        PP      PP  SS            TT       AA    AA  MMMM   MMMM  AA    AA    CC
NN       NN  CC        PP      PP  SS            TT       AA    AA  MMMM   MMMM  AA    AA    CC
NNNN     NN  CC        PP      PP  SS            TT       AA    AA  MM  MM MM  MM AA    AA    CC
NNNN     NN  CC        PP      PP  SS            TT       AA    AA  MM  MM MM  MM AA    AA    CC
NN  NN   NN  CC        PPPPPPPP      SSSSSS      TT       AA    AA  MM       MM  AA    AA    CC
NN  NN   NN  CC        PPPPPPPP      SSSSSS      TT       AA    AA  MM       MM  AA    AA    CC
NN    NNNN  CC        PP               SS       TT    AAAAAAAAAA   MM       MM  AAAAAAAAAA   CC
NN    NNNN  CC        PP               SS       TT    AAAAAAAAAA   MM       MM  AAAAAAAAAA   CC
NN       NN  CC        PP               SS       TT    AA      AA   MM       MM  AA      AA   CC
NN       NN  CC        PP               SS       TT    AA      AA   MM       MM  AA      AA   CC
NN       NN  CCCCCCCC  PP         SSSSSSSS       TT    AA      AA   MM       MM  AA      AA  CCCCCCCC
NN       NN  CCCCCCCC  PP         SSSSSSSS       TT    AA      AA   MM       MM  AA      AA  CCCCCCCC
```

```
LL           IIIIII    SSSSSSSS
LL           IIIIII    SSSSSSSS
LL             II     SS
LL             II     SS
LL             II     SS
LL             II     SS
LL             II       SSSSSS
LL             II       SSSSSS
LL             II            SS
LL             II            SS
LL             II            SS
LL             II            SS
LLLLLLLLLL   IIIIII    SSSSSSSS
LLLLLLLLLL   IIIIII    SSSSSSSS
```

X.25 Access Module Parsing

D 7
16-Sep-1984 00:50:52   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:48:27   [NCP.SRC]NCPSTAMAC.B32;1

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NCP
V04

```
 1    0001   0  %TITLE  'X.25 Access Module Parsing'
 2    0002   0  MODULE NCPSTAMAC (IDENT = 'V04-000',LIST(NOOBJECT)) =
 3    0003   1  BEGIN
 4    0004   1
 5    0005   1  !
 6    0006   1  !****************************************************************
 7    0007   1  !*                                                              *
 8    0008   1  !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                    *
 9    0009   1  !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.      *
10    0010   1  !*   ALL RIGHTS RESERVED.                                       *
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14    0014   1  !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
15    0015   1  !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
16    0016   1  !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
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18    0018   1  !*                                                              *
19    0019   1  !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
20    0020   1  !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
21    0021   1  !*   CORPORATION.                                               *
22    0022   1  !*                                                              *
23    0023   1  !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
24    0024   1  !:   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.     *
25    0025   1  !*                                                              *
26    0026   1  !*                                                              *
27    0027   1  !****************************************************************
28    0028   1  !
29    0029   1
30    0030   1  !++
31    0031   1  !  FACILITY:      Network Control Program (NCP)
32    0032   1  !
33    0033   1  !  ABSTRACT:
34    0034   1  !
35    0035   1  !      States and data for the parsing of NCP  SET / CLEAR X.25-ACCESS
36    0036   1  !      module parameters.
37    0037   1  !
38    0038   1  !  ENVIRONMENT:  VAX/VMS Operating System
39    0039   1  !
40    0040   1  !  AUTHOR:       Paul R. DeStefano, February 1984
41    0041   1  !
42    0042   1  !  MODIFIED BY:
43    0043   1  !
44    0044   1  !      V03-001 PRD0086        Paul R. DeStefano        26-Mar-1984
45    0045   1  !              Corrected parameter type for NODE.
46    0046   1  !
47    0047   1  !--
```

```
  49    0048  1 %SBTTL  'Definitions'
  50    0049  1
  51    0050  1 !
  52    0051  1 ! INCLUDE FILES:
  53    0052  1 !
  54    0053  1
  55    0054  1         LIBRARY 'LIB$:NMALIBRY';
  56    0055  1         LIBRARY 'LIB$:NCPLIBRY';
  57    0056  1         LIBRARY 'SYS$LIBRARY:TPAMAC';
  58    0057  1
  59    0058  1 !
  60    0059  1 ! EXTERNAL REFERENCES:
  61    0060  1 !
  62    0061  1         ACT_DFN                 ! Action routine externals
  63    0062  1 EXTERNAL
  64    0063  1         NCP$GL_QUALFRS;         ! Qualifier was present on command line
  65    0064  1
  66    0065  1 !
  67    0066  1 ! OWN STORAGE:
  68    0067  1 !
  69    0068  1
  70    0069  1
  71    0070  1 !
  72    0071  1 ! LITERALS
  73    0072  1 !
  74    0073  1
  75    0074  1 LITERAL
  76    0075  1     QUALPRESENT = 1;            ! Qualifier was present on command line
```

```
   78      0076  1 %SBTTL  'Set Parameter blocks'
   79      0077  1
   80      0078  1 !
   81      0079  1 !          SET X25-ACCESS Parameter Blocks
   82      0080  1 !
   83      0081  1
   84    P 0082  !          BUILD_PCL
   85    P 0083  1
   86    P 0084  1          (MAC,                               ! Module X25-ACCESS
   87    P 0085  1
   88    P 0086  1          NET, TKN,        PCXA_NET, ,
   89    P 0087  1
   90    P 0088  1          ACC, TKN,        PCXA_ACC, ,
   91    P 0089  1          NOD, NADR,       PCXA_NOD, ;
   92    P 0090  1          PSW, TKN,        PCXA_PSW, ;
   93    P 0091  1          USR, TKN,        PCXA_USR, ,
   94    P 0092  1
   95    P 0093  1          , END, . .
   96    P 0094  1
   97      0095  1          )
   98      0096  1
   99    P 0097  1          BUILD_PBK
  100    P 0098  1
  101    P 0099  1          (MAC,                               ! Module X25-ACCESS
  102    P 0100  1
  103    P 0101  1          NET, TKN, , ,
  104    P 0102  1          KNT, LITB, NMA$C_ENT_KNO, MAC_NET,   ! KNOWN NETWORKS
  105    P 0103  1          ACC, TKN, , ,
  106    P 0104  1          NOD, NADR, , ,
  107    P 0105  1          PSW, TKN, , ,
  108    P 0106  1          USR, TKN, , ,
  109    P 0107  1
  110    P 0108  1
  111      0109  1          )
  112      0110  1
  113      0111  1 BIND     PDB$G_MAC_ENT =                     ! Access entity name
  114      0112  1          UPLIT BYTE(0, %ASCIC 'X25-ACCESS');
  115      0113  1
  116    P 0114  1          BUILD_SDB
  117    P 0115  1
  118      0116  1          (MAC, NMA$C_ENT_MOD, MAC_ENT, MAC)
```

```
120     0117  1  %SBTTL  'Clear Parameter blocks'
121     0118  1  :
122     0119  1  :
123     0120  1  :        CLEAR X25-ACCESS Parameter Blocks
124     0121  1  :
125     0122  1
126  P 0123  1           BUILD_PCL
127  P 0124  1
128  P 0125  1           (CAC,                             ! Module X25-ACCESS
129  P 0126  1
130  P 0127  1           NET, TKN,        PCXA_NET, .
131  P 0128  1
132  P 0129  1           ACC, LITB,       PCXA_ACC, .
133  P 0130  1           NOD, LITB,       PCXA_NOD, :
134  P 0131  1           PSW, LITB,       PCXA_PSW, :
135  P 0132  1           USR, LITB,       PCXA_USR, :
136  P 0133  1
137  P 0134  1           , END, , .
138  P 0135  1
139    0136  1           )
140    0137  1
141  P 0138  1           BUILD_PBK
142  P 0139  1
143  P 0140  1           (CAC,                             ! Module X25-ACCESS
144  P 0141  1
145  P 0142  1           ALL, LITB, 0, VRB_ALL,
146  P 0143  1
147  P 0144  1           NET, TKN, , ,
148  P 0145  1           KNT, LITB, NMASC_ENT_KNO, CAC_NET      ' KNOWN NETWORKS
149  P 0146  1           ACC, LITB, , ,
150  P 0147  1           NOD, LITB, , :
151  P 0148  1           PSW, LITB, , :
152  P 0149  1           USR, LITB, , :
153  P 0150  1
154    0151  1           )
155    0152  1
156    0153  1
157  P 0154  1           BUILD_SDB
158  P 0155  1
159    0156  1           (CAC, NMASC_ENT_MOD, MAC_ENT, CAC)
```

```
  161          0157 1 %SBTTL  'Prompt strings'
  162          0158 1
  163          0159 1 !
  164          0160 1 !      Build prompt strings
  165          0161 1 !
  166          0162 1
  167          0163 1 BIND
  168          0164 1
  169        P 0165 1      PROMPT_STRINGS
  170        P 0166 1      (MAC,
  171        P 0167 1
  172        P 0168 1      DAT, '   (NETWORK name, or KNOWN NETWORKS): ',
  173        P 0169 1      NET, '              NETWORK (1-16 characters): ',
  174        P 0170 1
  175        P 0171 1      ACC,    'Account                    (1-39 characters): ',
  176        P 0172 1      NOD,    'Node name                   (1-6 characters): ',
  177        P 0173 1      PSW,    'Password                   (1-39 characters): ',
  178        P 0174 1      USR,    'User                       (1-39 characters): ',
  179        P 0175 1
  180          0176 1      ),
  181          0177 1
  182        P 0178 1      PROMPT_STRINGS
  183        P 0179 1      (CAC,
  184        P 0180 1
  185        P 0181 1      DAT, '   (NETWORK name, or KNOWN NETWORKS): ',
  186        P 0182 1      NET, '              NETWORK (1-16 characters): ',
  187        P 0183 1
  188        P 0184 1      ALL,    'All X.25 access parameters        (Y, N): ',
  189        P 0185 1      ACC,    'Account                           (Y, N): ',
  190        P 0186 1      NOD,    'Node                              (Y, N): ',
  191        P 0187 1      PSW,    'Password                          (Y, N): ',
  192        P 0188 1      USR,    'User                              (Y, N): ',
  193        P 0189 1
  194          0190 1      );
```

```
196   0191  1 %SBTTL  'Declare entry points to TPARSE tables'
197   0192  1
198   0193  1 !
199   0194  1 !        Declare entry points to this TPARSE table
200   0195  1 !
201   0196  1
202   0197  1 $INIT_STATE (NCP$G_STTBL_MAC, NCP$G_KYTBL_MAC);
203   0198  1
204   0199  1 FORWARD
205   0200  1         ST_CAC:          VECTOR [0];     ! Clear X25-Access
206   0201  1
207   0202  1 GLOBAL BIND
208   0203  1         NCP$G_STTBL_CAC = ST_CAC,
209   0204  1         NCP$G_KYTBL_CAC = NCP$G_KYTBL_MAC;
```

```
  211        0205  1 %SBTTL  'SET X25-ACCESS Module Parameters'
  212        0206  1 !
  213        0207  1 !
  214        0208  1 !       SET/DEFINE MODULE X25-ACCESS parameter states
  215        0209  1 !
  216        0210  1
  217      P 0211  1 $STATE  (ST_MAC,
  218      P 0212  1         (TPA$_EOS, ST_MAC_PMT_DAT),
  219      P 0213  1         (TPA$_LAMBDA, ST_MAC_DAT)
  220        0214  1         );
  221        0215  1
  222      P 0216  1 $STATE  (ST_MAC_PMT_DAT,
  223        0217  1         (TPA$_LAMBDA,, ACT$PRMPT,,, PMT$G_MAC_DAT));
  224        0218  1
  225        0219  1
  226      P 0220  1 $STATE  (ST_MAC_DAT,                        ! Determine if KNOWN specified
  227      P 0221  1         ('NETWORK',      ST_MAC_DAT_NET),
  228      P 0222  1         ('KNOWN',        ST_MAC_DAT_KWN),
  229        0223  1         );
  230        0224  1
  231        0225  1 !
  232        0226  1 !       Prompt for access parameters
  233        0227  1 !
  234        0228  1
  235      P 0229  1 $STATE  (ST_MAC_DAT_NET,
  236        0230  1         (TPA$_LAMBDA));
  237        0231  1
  238      P 0232  1         COMMAND_PROMPT
  239      P 0233  1         (MAC, NET, NCP$_INVKEY,
  240      P 0234  1
  241        0235  1         ((SE_NET_NAME),, ACT$SAVPRM, QUALPRESENT, NCP$GL_QUALPRS, PBK$G_MAC_NET));
  242        0236  1
  243      P 0237  1 $STATE  (ST_MAC_PMT_NET,
  244      P 0238  1         (TPA$_EOS),
  245        0239  1         (TPA$_LAMBDA,ST_MAC_PRC));
  246        0240  1
  247      P 0241  1         PROMPT_STATES
  248      P 0242  1         (MAC,
  249      P 0243  1         ACC, NOD, PSW, USR
  250        0244  1         )
  251        0245  1
  252      P 0246  1 $STATE  (ST_MAC_DOIT,
  253      P 0247  1         (TPA$_LAMBDA, TPA$_EXIT, ACT$VRB_UTILITY, , , SDB$G_MAC),
  254        0248  1         );
  255        0249  1
  256        0250  1 !
  257        0251  1 !       Dispatch on KNOWN keyword during prompting
  258        0252  1 !
  259        0253  1
  260      P 0254  1 $STATE  (ST_MAC_DAT_KWN,
  261      P 0255  1         (TPA$_EOS, ST_MAC_PMT_NET, ACT$SAVPRM,,, PBK$G_MAC_KNT),
  262      P 0256  1         ('NETWORKS', ST_MAC_PMT_NET, ACT$SAVPRM,,, PBK$G_MAC_KNT),
  263        0257  1         );
```

```
265      0258  1
266      0259  1  !
267      0260  1  !      Dispatch States
268      0261  1  !
269      0262  1
270    P 0263  1  $STATE  (ST_MAC_PRC,
271    P 0264  1
272    P 0265  1          ((SE_ALL), ST_MAC_DOIT),
273    P 0266  1
274    P 0267  1          DISPATCH_STATES
275    P 0268  1          (MAC,
276    P 0269  1
277    P 0270  1          ACC, 'ACCOUNT',
278    P 0271  1          NOD, 'NODE',
279    P 0272  1          PSW, 'PASSWORD',
280    P 0273  1          USR, 'USER'
281    P 0274  1
282    P 0275  1          )
283    P 0276  1          ,(TPAS_EOS, ST_MAC_DOIT)
284      0277  1          );
```

```
  286        0278   1
  287        0279   1  !
  288        0280   1  !       Dispatch on KNOWN keyword
  289        0281   1  !
  290        0282   1
  291     P  0283   1  $STATE   (ST_MAC_PRC_KWN,
  292        0284   1           ((SE_MAC_KWN), ST_MAC_PRC));
  293        0285   1
  294     P  0286   1  $STATE   (SE_MAC_KWN,
  295     P  0287   1
  296     P  0288   1           KEYWORD_STATE
  297     P  0289   1           (MAC,
  298     P  0290   1
  299     P  0291   1           KNT, 'NETWORKS',
  300     P  0292   1
  301        0293   1           ));
  302        0294   1
```

NCPSTAMAC
V04-000

X.25 Access Module Parsing
SET X25-ACCESS Module Parameters

M 7
16-Sep-1984 00:50:52
14-Sep-1984 12:48:27

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTAMAC.B32;1

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NCP
V04

```
304    0295  1 !
305    0296  1 !
306    0297  1 !          Process states - call subexpressions to store value
307    0298  1 !
308    0299  1
309  P 0300  1    PROCESS_STATES
310  P 0301  1    (MAC,
311  P 0302  1
312  P 0303  1    ACC, ,
313  P 0304  1    NOD, ,
314  P 0305  1    PSW, ,
315  P 0306  1    USR, ,
316  P 0307  1
317    0308  1    )
```

```
  319       0309  1  !
  320       0310  1  !
  321       0311  1  !      Sub_expressions
  322       0312  1  !
  323       0313  1
  324    P  0314  1         SUB_EXPRESSIONS
  325    P  0315  1         (MAC,
  326    P  0316  1
  327    P  0317  1         ACC, (SE_ACC_ACC),
  328    P  0318  1         NOD, (SE_NODE_ID),
  329    P  0319  1         PSW, (SE_ACC_PSW),
  330    P  0320  1         USR, (SE_ACC_USR),
  331    P  0321  1
  332       0322  1         )
```

```
 334        0323  1  %SBTTL  'CLEAR X25-ACCESS Module Parameters'
 335        0324  1
 336        0325  1  !
 337        0326  1  !         CLEAR/PURGE MODULE X25-ACCESS parameter states
 338        0327  1  !
 339        0328  1
 340      P 0329  1  $STATE  (ST_CAC,
 341      P 0330  1          (TPA$_EOS, ST_CAC_PMT_DAT),
 342      P 0331  1          (TPA$_LAMBDA,-ST_CAC_DAT)
 343        0332  1          );
 344        0333  1
 345        0334  1
 346      P 0335  1  $STATE  (ST_CAC_PMT_DAT,
 347        0336  1          (TPA$_LAMBDA,, ACT$PRMPT,,, PMT$G_CAC_DAT));
 348        0337  1
 349        0338  1
 350      P 0339  1  $STATE  (ST_CAC_DAT,                              ! Determine if KNOWN specified
 351      P 0340  1          ('NETWORK',       ST_CAC_DAT_NET),
 352      P 0341  1          ('KNOWN',         ST_CAC_DAT_KWN),
 353        0342  1          );
 354        0343  1
 355        0344  1  !
 356        0345  1  !         Prompt for access parameters
 357        0346  1  !
 358        0347  1
 359        0348  1
 360      P 0349  1  $STATE  (ST_CAC_DAT_NET,
 361        0350  1          (TPA$_LAMBDA));
 362        0351  1
 363      P 0352  1          COMMAND_PROMPT
 364      P 0353  1          (CAC, NET, NCP$_INVKEY,
 365      P 0354  1
 366        0355  1          ((SE_NET_NAME),, ACT$SAVPRM, QUALPRESENT, NCP$GL_QUALPRS, PBK$G_CAC_NET));
 367        0356  1
 368      P 0357  1  $STATE  (ST_CAC_PMT_NET,
 369      P 0358  1          (TPA$_EOS),
 370        0359  1          (TPA$_LAMBDA,ST_CAC_PRC));
 371        0360  1
 372      P 0361  1          QUERY_STATES
 373      P 0362  1          (CAC,
 374        0363  1          ALL, ACC, PSW, USR)
 375        0364  1
 376      P 0365  1  $STATE  (ST_CAC_DOIT,
 377      P 0366  1          (TPA$_LAMBDA, TPA$_EXIT, ACT$VRB_UTILITY, , , SDB$G_CAC),
 378        0367  1          );
 379        0368  1
 380        0369  1
 381        0370  1  !
 382        0371  1  !         Dispatch on KNOWN keyword during prompting
 383        0372  1  !
 384        0373  1
 385      P 0374  1  $STATE  (ST_CAC_DAT_KWN,
 386      P 0375  1          (TPA$_EOS, ST_CAC_PMT_NET, ACT$SAVPRM,,, PBK$G_CAC_KNT),
 387      P 0376  1          ('NETWORKS', ST_CAC_PMT_NET, ACT$SAVPRM,,, PBK$G_CAC_KNT),
 388        0377  1          );
 389        0378  1
```

```
391      0379  1
392      0380  1  !
393      0381  1  !       Dispatch States
394      0382  1  !
395      0383  1
396    P 0384  1  $STATE  (ST_CAC_PRC,
397    P 0385  1
398    P 0386  1          DISPATCH_STATES
399    P 0387  1          (CAC,
400    P 0388  1
401    P 0389  1          ALL,  'ALL',
402    P 0390  1          ACC,  'ACCOUNT',
403    P 0391  1          PSW,  'PASSWORD',
404    P 0392  1          USR,  'USER',
405    P 0393  1          )
406    P 0394  1          ,(TPAS_EOS, ST_CAC_DOIT)
407      0395  1          );
```

```
  409      0396  1 !
  410      0397  1 !
  411      0398  1 !          Dispatch on KNOWN keyword
  412      0399  1 !
  413      0400  1
  414    P 0401  1 $STATE   (ST_CAC_PRC_KWN,
  415      0402  1            ((SE_CAC_KWN), ST_CAC_PRC));
  416      0403  1
  417    P 0404  1 $STATE   (SE_CAC_KWN,
  418    P 0405  1
  419    P 0406  1            KEYWORD_STATE
  420    P 0407  1            (CAC,
  421    P 0408  1
  422    P 0409  1            KNT, 'NETWORKS',
  423    P 0410  1
  424      0411  1            ));
  425      0412  1
```

```
  427        0413  1
  428        0414  1  |
  429        0415  1  |          Process states - call subexpressions to store parameter ID's
  430        0416  1  |
  431        0417  1
  432     P  0418  1          PROCESS_STATES
  433     P  0419  1          (CAC,
  434     P  0420  1
  435     P  0421  1          ALL, ,
  436     P  0422  1          ACC, ;
  437     P  0423  1          PSW, ;
  438     P  0424  1          USR, ,
  439     P  0425  1
  440        0426  1          )
```

```
:  442        0427  1
:  443        0428  1 |
:  444        0429  1 |        Sub_expressions
:  445        0430  1 |
:  446        0431  1
:  447      P 0432  1          SUB_EXPRESSIONS
:  448      P 0433  1          (CAC,
:  449      P 0434  1
:  450      P 0435  1          ALL, TPA$_EOS,
:  451      P 0436  1
:  452      P 0437  1          ACC, TPA$_LAMBDA,
:  453      P 0438  1          PSW, TPA$_LAMBDA,
:  454      P 0439  1          USR, TPA$_LAMBDA,
:  455        0440  1          )
```

NCPSTAMAC   X.25 Access Module Parsing   G 8
V04-000   Define Subexpressions   16-Sep-1984 00:50:52   VAX-11 Bliss-32 V4.0-742   Page 17
                                                 14-Sep-1984 12:48:27   [NCP.SRC]NCPSTAMAC.B32;1   (17)

```
  457    0441  1 %SBTTL  'Define Subexpressions'
  458    0442  1
  459    0443  1 !
  460    0444  1 !        Define Subexpressions from Library
  461    0445  1 !
  462    0446  1
  463    0447  1        SEM_ALL                        ! All parameter
  464    0448  1        SEM_NET_NAME                   ! X25 Network name
  465    0449  1        SEM_ACCESS                     ! X25 Access Account, Password, User
  466    0450  1        SEM_NODE_ID                    ! Nodename, Node ID
  467    0451  1        SEM_QUOT_STR                   ! Quoted string
  468    0452  1        SEM_QUERY                      ! Query state subexpressions
```

```
:   470       0453  1 END
:   471       0454  0 ELUDOM
```

NCPSTAMAC
LIS

NCPSTAMSE
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